

Clinician Fact Sheet: Influenza 2005-2006

Epidemiology

- Human disease is caused by influenza A or influenza B
- Ongoing minor antigenic changes require yearly vaccination in the fall
- Knowing the currently circulating strain aids in decisions regarding antiviral treatment and prophylaxis

Clinical Presentation

• High fever, chills, prostration, muscle aches, sore throat, coryza, cough; at times, also vomiting and diarrhea

Differential Diagnosis

• Febrile respiratory illnesses such as bacterial pneumonia, mycoplasma, adenovirus, avian influenza (e.g. influenza A H5N1), and SARS

Laboratory

- Rapid testing of nasopharyngeal swabs for influenza
- Consider NP swab for respiratory viral culture (if positive, allows for further typing of isolate)
- Do not order routine viral culture if avian influenza is suspected

Infection control

- Droplet precautions (mask within 3-6 feet)
- Routine standard precautions and good handwashing before & after patient contact

Treatment & Prophylaxis

- Antivirals shorten the course of illness when given within the first 1-2 days of influenza symptoms
- CDC recommends against the use of amantadine & rimantadine for the 2005-2006 season

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	Amantadine	Rimantadine	Oseltamivir	Zanamivir
	(Symmetrel®)	(Flumadine®)	(Tamiflu®)	(Relenza®)
Effective for	Not recommended for		Yes	Yes
Influenza A	2005-2006 season			
Effective for	No	No	Yes	Yes
Influenza B				
Mode	Oral	Oral	Oral	Inhaled
Treatment	<u>></u> 1 y.o.	<u>></u> 13 y.o.	<u>></u> 1 y.o.	<u>></u> 7 y.o.
Prophylaxis	<u>></u> 1 y.o.	<u>></u> 1 y.o.	<u>></u> 1 y.o.	Not
		_		licensed

Follow CDC's recommendations for ages and contraindications

- Don't use smaller doses than recommended
- Only use LAIV (Flumist™) in healthy people ages 5 years-49 years
- Persons receiving LAIV should avoid close contact with severely immunosuppresed people for 7 days
- Contraindications to inactivated influenza vaccine or LAIV
 - Anaphylactic allergy to eggs
 - Previous Guillain-Barré syndrome during the 6 weeks following a previous influenza vaccine

Remember Pneumovax® or Prevnar® pneumococcal vaccine for high-risk individuals.

Influenza Vaccine Recommendations for 2005-2006 season

Inactivated intramuscular shot [Multiple manufacturers]:

- 1) Ages \geq 50 y.o.
- 2) All children ages 6 mo.-23 mo.
- 3) Household contacts and out-of-home caretakers of infants < age 6 mo.
- 4) Ages 2 y.o.-64 y.o. with a chronic medical conditions (e.g. heart disease, lung disease, asthma, diabetes, kidney disease, immunosuppression, etc.)
- 5) Pregnant during influenza season.
- 6) Children age 6 mo.-18 y.o. on chronic aspirin therapy.
- 7) Health care workers (HCW) with direct patient care.
- 8) Residents in nursing home or long-term care facility.
- 9) Anyone wishing to reduce their risk of influenza.

<u>Live attenuated influenza vaccine (LAIV) [Flumist™]:</u>

• Healthy, nonpregnant people ages 5 y.o. through 49 y.o., including close contacts of infants and many health care workers

Pediatric pointers

- Children ages 5 years-8 years old receiving any influenza vaccine for the <u>first</u> time need <u>two</u> doses of vaccine.
 - o Two inactivated shots should be spaced ≥ 4 weeks apart
 - o Two LAIV doses should be separated by 6-10 weeks
- Notify local or county health department for pediatric influenza deaths.

Staphylococcal and MRSA disease associated with influenza

- MRSA is becoming a community-acquired infection
- Coagulase positive staphylococcus secondary respiratory infections are more likely with influenza
- During the 2003-2004 season, CDC reported severe illness and death associated with influenza and MRSA
- Physicians caring for patients who have influenza and worsening respiratory status requiring IV antibiotics should consider using <u>vancomycin</u> for staphylococcal coverage until culture results are available and/or clinical improvement occurs
- Many oral antibiotics do not cover MRSA
- Oral antibiotics that may be effective against MRSA
 - o Trimethoprim-sulfamethoxazole
 - Poor against *Streptococcus pneumoniae*
 - Avoid in pregnancy
 - o Clindamycin (Good against Streptococcus pneumoniae)

For More Information

- ADHS website at http://www.azdhs.gov/phs/immun/providersflu.htm
- Centers for Disease Control and Prevention website at www.cdc.gov/flu
- MMWR July 29, 2005 "Treatment and Control of Influenza" at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5408a1.htm
- Recorded ADHS Hotline for the Public: Metro Phoenix 602-364-4500
 Statewide 1-800-314-9243

Arizona Department of Health Services
Division of Public Health Services